WHAT IS CLAIMED IS:

1. A method of logical modeling operator interaction with a programmable logic controller logical verification system, said method comprising the steps of:

constructing a flowchart of interaction of an operator in a workcell;

testing whether logic of the flowchart is correct; and

using the flowchart to test PLC code to build the workcell if the logic of the flowchart is correct.

2. A method as set forth in claim 1 wherein the step of testing comprises starting a timer and determining whether the operator interaction of the flowchart is completed within a predetermined time.

3. A method as set forth in claim 2 wherein the step of testing includes initializing the operator interaction of the flowchart prior to starting the timer.

4. A method as set forth in claim 3 wherein said step of testing includes idling the operator prior to starting the timer.

5. A method as set forth in claim 1 wherein said step of constructing comprises constructing a series of commands for the operator.

6. A method as set forth in claim 5 wherein the commands have at least one resource.

7. A method as set forth in claim 6 wherein the at least one resource has at least one capability.

8. A method as set forth in claim 1 wherein the step of testing includes executing the commands when a timer is started.

9. A method of logical modeling operator interaction with a programmable logic controller logic verification system, said method comprising the steps of:

constructing a series of commands for an operator in a workcell using a flowchart;

starting a timer and executing the commands to test whether logic of the flowchart is correct; and

5   using the flowchart to test PLC code to build a workcell if the logic of the flowchart is correct.

10.   A method as set forth in claim 9 wherein the step of testing includes determining whether the commands of
10   the flowchart are completed within a predetermined time.

11.   A method as set forth in claim 10 wherein the step of testing includes initializing the operator interaction of the flowchart prior to starting the timer.

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12.   A method as set forth in claim 11 wherein said step of testing includes idling the operator prior to starting the timer.

20   13.   A method as set forth in claim 9 wherein said step of constructing comprises constructing commands having at least one resource.

14. A method as set forth in claim 13 wherein the at least one resource has at least one capability.

15. A method of logical modeling operator interaction with a programmable logic controller logic verification system, said method comprising the steps of:

constructing a series of commands having at least one resource with at least one capability for an operator in a workcell using a flowchart;

initializing the operator interaction and idling the operator;

starting a timer, executing the commands, and determining whether the commands are completed within a predetermined time to test whether logic of the flowchart is correct; and

using the flowchart to test PLC code to build a workcell if the logic of the flowchart is correct.